

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 6311.N	Serial No.: 09/829,872
	Applicant(s): Brian J. Stockman	Confirmation No.: 7416
	Application Filing Date: April 10, 2001	Group: 1631
	Information Disclosure Statement mailed: January 17, 2003	



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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date Appropriate
		NONE					

FOREIGN PATENT DOCUMENTS

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		NONE					

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

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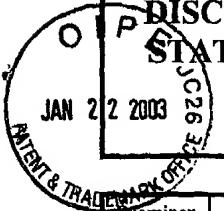
Examiner Initial		Document Description
kgj	.	Dalvit et al., "Sensitivity-improved detection of protein hydration and its extension to the assignment of fast-exchanging resonances," <i>J. Magn. Reson. B.</i> , 109:334-338 (1995).
	.	Dalvit, "Homonuclear 1D and 2D NMR Experiments for the Observation of Solvent-Solute Interactions," <i>J Magn Reson B</i> . 1996 Sep;112(3):282-288.
	.	Dalvit et al., "Half-filter experiments for assignment, structure determination and hydration analysis of unlabelled ligands bound to ¹³ C/ ¹⁵ N labelled proteins," <i>J. Biomol. NMR</i> , 13:43-50 (1999).
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	.	Hwang et al., "Water suppression that works. Excitation sculpting using arbitrary waveforms and pulsed field gradients," <i>J. Magn. Reson. A</i> 112:275-279 (1995).
	.	Kallen et al., "Structural basis for LFA-1 inhibition upon lovastatin binding to the CD11a I-domain," <i>J. Mol. Biol.</i> , 292:1-9 (1999).
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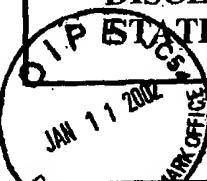
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MJ	Melacini et al., "Water-macromolecule interactions by NMR: a quadrature-free constant-time approach and its application to C12," <i>J. Biomol. NMR</i> , 15:189-201 (1999).
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	Otting et al., "Protein hydration in aqueous solution," <i>Science</i> , 254(5034): 974-980 (1991).
	Otting, "NMR studies of water bound biological molecules," <i>Progr. NMR Spectrosc.</i> , 31:259-285 (1997).
	Price, "Water signal suppression in NMR spectroscopy," <i>Annual Reports on NMR Spectroscopy</i> (Ed., Webb, A.), Academic Press, New York, vol. 38, pp. 289-354 (1999).
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MP	4,719,582	01/12/88	Ishida et al.			
	5,270,163	12/14/93	Gold et al.			
	5,306,619	04/26/94	Edwards et al.			
	5,668,734	09/16/97	Krishna et al.			
	5,698,401	12/16/97	Fesik et al.			
	5,804,390	09/08/98	Fesik et al.			
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	5,856,496	01/05/99	Fagnola et al.			
	5,891,643	04/06/99	Fesik et al.			
	5,989,827	11/23/99	Fesik et al.			
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MM	6,214,561	04/10/01	Peters et al.			

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						Yes	No
MP	DE 196 49 359 C1	02/12/98	Germany (with English language abstract)				X
	EP 0 592 816 A1, B1	04/20/94	EPO (with English language abstract)				X
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	WO 91/10140	07/11/91	WIPO				
	WO 91/17428	11/14/91	WIPO				
	WO 93/00446	01/07/93	WIPO				
	WO 94/14980	07/07/94	WIPO				
MM	WO 96/30849	10/03/96	WIPO				

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<i>WY</i> PATENT & TRADEMARK OFFICE	WO 96/30849	10/03/96	WIPO	<i>TECH CENTER 600/2000</i> JAN 1 2002	<i>RECEIVED</i>
	WO 97/00244	01/03/97	WIPO		
	WO 97/18469	05/22/97	WIPO		
	WO 97/18471	05/22/97	WIPO		
	WO 98/46548	10/22/98	WIPO		
	WO 98/48264	10/29/98	WIPO		
	WO 98/57155	12/17/98	WIPO		
	WO 99/09024	02/25/99	WIPO		
	WO 99/17616	04/15/99	WIPO		
	WO 99/36422	07/22/99	WIPO		
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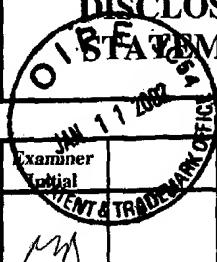
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<i>WY</i>		Ajay et al., "Can We Learn To Distinguish between "Drug-like" and "Nondrug-like" Molecules?" <i>Journal of Medicinal Chemistry</i> , 41(18):3314-3324 (1998).
		Anderson et al., "Affinity NMR: Decoding DNA Binding," <i>Journal of Combinatorial Chemistry</i> , 1(1):69-72 (1999).
		Balaram et al., "Localization of Tyrosine at the Binding Site of Neurophysin II by Negative Nuclear Overhauser Effects," <i>Journal of the American Chemical Society</i> , 94(11): 4017-4018 (1972).
		Barjat et al., "High-Resolution Diffusion-Ordered 2D Spectroscopy (HR-DOSY) - A New Tool for the Analysis of Complex Mixtures," <i>Journal of Magnetic Resonance, Series B</i> , 108:170-172 (1995).
		Bax et al., "Sensitivity-Enhanced Two-Dimensional Heteronuclear Shift Correlation NMR Spectroscopy," <i>Journal of Magnetic Resonance</i> , 67:565-569 (1986).
<i>WY</i>		Belton et al., "Application of chemometrics to the ¹ H NMR spectra of apple juices: discrimination between apple varieties," <i>Food Chemistry</i> , 61(1/2):207-213 (1998).

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Examiner Initial	Document Description	TECH CENTER 1600/1600
MM	Bemis et al., "The Properties of Known Drugs. 1. Molecular Frameworks," <i>Journal of Medicinal Chemistry</i> , 39(15):2887-2893 (1996).	JAN 15 2001
	Bemis et al., "Properties of Known Drugs. 2. Side Chains," <i>Journal of Medicinal Chemistry</i> , 42(25):5095-5099 (1999).	1600/1600
	BLAST 2 Sequences. [online] National Center for Biotechnology Information, National Institutes of Health, United States, [retrieved 2001-08-29]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov/gorf/bl2.html >, 1 page.	1600/1600
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	Chen et al., "NOE Pumping. 2. A High-Throughput Method To Determine Compounds with Binding Affinity to Macromolecules by NMR," <i>Journal of the American Chemical Society</i> , 122(2):414-415 (2000).	1600/1600
	Chiyoda et al., "Screening System for Urease Inhibitors Using ¹³ C-NMR," <i>Chemical & Pharmaceutical Bulletin</i> , 46(4):718-720 (1998).	1600/1600
MM	Dalvit et al., "Use of organic solvents and small molecules for locating binding sites on proteins in solution," <i>Journal of Biomolecular NMR</i> , 14(1):23-32 (1999).	1600/1600

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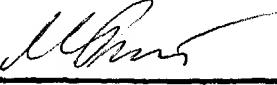
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MM	Dalvit et al., "Identification of compounds with binding affinity to proteins via magnetization transfer from bulk water," <i>Journal of Biomolecular NMR</i> , 18(1):65-68 (2000).
	Delaglio, "Adaptive Analysis and Multivariate Methods for Applications," Abstract, <i>Lab Instrumentation Series, Cambridge Healthtech Institute's Second International, NMR Technologies: Development and Applications for Drug Discovery</i> , Sheraton Inner Harbor Hotel, Baltimore, Maryland, 2 pages (November 4-5, 1999).
	Detlefsen et al., "Molecular Flexibility Profiling Using NMR Spectroscopy," <i>Current Medicinal Chemistry</i> , 6(5):353-358 (1999).
	Fairbanks et al., "Purification and structural characterization of the CD11b/CD18 integrin α subunit I domain reveals a folded conformation in solution," <i>FEBS Letters</i> , 369(2-3):197-201 (1995).
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MM	Fesik, "NMR structure-based drug design," <i>Journal of Biomolecular NMR</i> , 3(3):261-269 (1993).

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MM		Freeman et al., "Proton-detected ¹⁵ N NMR spectroscopy and imaging," EPO abstract, XP 002029543, from <i>Journal of Magnetic Resonance, Series B</i> , 102(2):183-192, 1 page (1993).
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MM		Henrichsen et al., "Bioaffinity NMR Spectroscopy: Identification of an E-Selectin Antagonist in a Substance Mixture by Transfer NOE," <i>Angewandte Chemie, International Edition</i> , 38(1/2):98-102 (1999).

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<i>MJ</i>	Lin et al., "Diffusion-Edited NMR-Affinity NMR for Direct Observation of Molecular Interactions," <i>Journal of the American Chemical Society</i> , 119(22):5249-5250 (1997).

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<i>MW</i>	Lin et al., "Screening Mixtures by Affinity NMR," <i>Journal of Organic Chemistry</i> , 62(25):8930-8931 (1997).		
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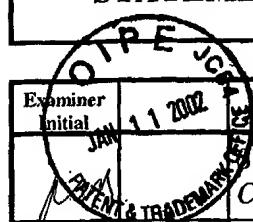
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MJ	Vogler et al., "Combination of LC-MS and LC-NMR as a Tool for the Structure Determination of Natural Products," <i>Journal of Natural Products</i> , 61(2):175-178 (1998).

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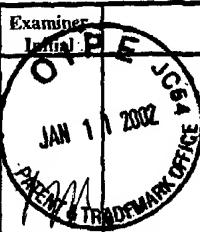
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	Applicant(s): Brian J. STOCKMAN	Confirmation No.: 7416
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Examiner Initials	Document Description
	Wang et al., "Solution Studies of Staphylococcal Nuclease H124L. 2. ¹ H, ¹³ C, and ¹⁵ N Chemical Shift Assignments for the Unligated Enzyme and Analysis of Chemical Shift Changes that Accompany Formation of the Nuclease-Thymidine 3', 5'-Bisphosphate-Calcium Ternary Complex," <i>Biochemistry</i> , 31(3):921-936 (1992).
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MM	Wishart et al., "Protein chemical shift analysis: a practical guide," <i>Biochemistry and Cell Biology</i> , 76(2/3):153-163 (1998).

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	Filing Date: 10 April 2001	Group: 1645

Examiner Initial	Document Description
WVW	Wolfender et al., "LC/NMR in Natural Products Chemistry," <i>Current Organic Chemistry</i> , 2(6):575-596 (1998).
WVW	Wu et al., "An Improved Diffusion-Ordered Spectroscopy Experiment Incorporating Bipolar-Gradient Pulses," <i>Journal of Magnetic Resonance, Series A</i> , 115(2):260-264 (1995).

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FOREIGN PATENT DOCUMENTS

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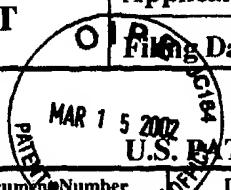
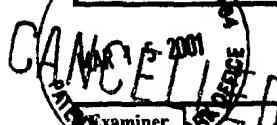
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✓	Stockman, "Applications of flow NMR spectroscopy to monitor binding of small molecules to proteins," Innovative Computational Applications: The Interface of Library Design, Bioinformatics, Structure Based Drug Design and Virtual Screening, Biotechnology Division, Institute for International Research, San Francisco, CA, Oct. 25-27, 1999.
✓	Stockman, "Applications of flow NMR spectroscopy to monitor binding of small molecules to proteins," NMR Technologies: Development and Applications for Drug Discovery, Cambridge Healthtech Institute's Second International, Baltimore, MD, Nov. 4-5, 1999.
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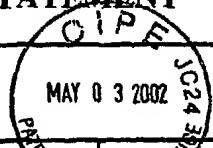
Examiner Initial	Document Description
<i>MS</i>	Stockman et al., "Screening of compound libraries for protein binding using flow-injection nuclear magnetic resonance spectroscopy," <i>Methods Enzymol.</i> 2001;338:230-46.

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Examiner Initial	Document Description
<i>MW</i>	Hajduk et al., "NMR-based discovery of lead inhibitors that block DNA binding of the human papillomavirus E2 protein," <i>J. Med. Chem.</i> 1997;40(20):3144-50.
<i>MW</i>	Veeraraghavan et al., "Structural correlates for enhanced stability in the E2 DNA-binding domain from bovine papillomavirus," <i>Biochemistry</i> , 1999;38(49):16115-24.

EXAMINER	Date Considered
<i>M. Stockman</i>	<i>4/10/03</i>

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